

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

APAC-515

SERIAL NO.

10/695,673

DuWain K. Ake

FILING

October 29, 2003

GROUP

3662-2878

FEB 09 2004

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3,017,046	1/16/62	Runci et al.			
AB	3,469,919	9/30/69	Zellner			
AC	3,708,232	1/2/73	Walsh			
AD	3,727,332	4/17/73	Zimmer			
AE	3,790,277	2/5/74	Hogan			
AF	3,813,171	5/28/74	Teach et al.			
AG	3,887,012	6/3/75	Scholl et al.			
AH	3,894,230	7/8/75	Rorden et al.			
AI	3,900,073	8/19/75	Crum			
AJ	3,997,071	12/14/76	Teach			
AK	4,029,415	6/14/77	Johnson			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
BA	2 101 077 A	1/12/83	United Kingdom				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	"360 degree Machine Guidance" and "Depthmaster" sales literature, by Laser Alignment, Inc. (exact date unknown, but known to be before June 12, 1989).
CB	"Laserplane Grade-Eye" sales literature, by Spectra-Physics (October 8, 1988).

EXAMINER

DATE CONSIDERED

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EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J. W.	4,034,490	7/12/77	Teach			
J. W.	4,040,738	8/9/77	Wagner			
J. W.	4,050,171	9/27/77	Teach			
J. W.	4,129,224	12/12/78	Teach			
J. W.	4,162,708	7/31/79	Johnson			
J. W.	4,231,700	11/4/80	Studebaker			
J. W.	4,273,196	6/16/81	Etsusaki et al.			
J. W.	4,393,606	7/19/83	Warnecke			
J. W.	4,413,684	11/8/83	Duncklee			
J. W.	4,477,168	10/16/84	Hosoe			
J. W.	4,491,927	1/1/85	Bachmann et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

J. W.	CC	"Laser Control-Receiver LRE-180/360" sales literature, by MOBA Electronic (exact date unknown, but known to be before June 12, 1989).
J. W.	CD	"What is a Lock-in Amplifier?" Technical Note TN 1000, by PerkinElmer Instruments (2000).

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## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J.H.W.	4,535,699	8/20/85	Buhler			
J.H.W.	AX 4,604,025	8/5/86	Hammoud			
J.H.W.	AY 4,674,870	6/23/87	Cain et al.			
J.H.W.	AZ 4,676,634	6/30/87	Petersen			
J.H.W.	AAA 4,726,682	2/23/88	Harms et al.			
J.H.W.	AAB 4,732,471	3/22/88	Cain et al.			
J.H.W.	AAC 4,756,617	7/12/88	Cain et al.			
J.H.W.	AAD 4,829,418	5/9/89	Nielsen et al.			
J.H.W.	AAE 4,884,939	12/5/89	Nielsen			
J.H.W.	AAF 4,907,874	3/13/90	Ake			
J.H.W.	AAG 4,912,643	3/27/90	Beirxe			

## FOREIGN PATENT DOCUMENTS

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						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

J.H.W.	CE	"Application Note #3 About Lock-In Amplifiers," by PerkinElmer Instruments.
J.H.W.	CF	"The Analog Lock-In Amplifier," Technical Note TN 1002, by PerkinElmer Instruments (2000).

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<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
J.H.	AAH	4,976,538	12/11/90	Ake				
J.H.	AAI	5,174,385	12/29/92	Shinbo et al.				
J.H.	AAJ	5,343,033	8/30/94	Cain				
J.H.	AAK	5,471,049	11/28/95	Cain				
J.H.	AAL	5,486,690	1/23/96	Ake				
J.H.	AAM	5,528,498	6/18/96	Scholl				
J.H.	AAN	5,682,311	10/28/97	Clark				
J.H.	AAO	5,848,485	12/15/98	Anderson et al.				
J.H.	AAP	5,854,988	12/29/98	Davidson et al.				
J.H.	AAQ	5,886,776	3/23/99	Yost et al.				
J.H.	AAR	5,925,085	7/20/99	Kleimenhagen et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
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							YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
J.H.	CG	"What Is a Lock-In Amplifier?" by Boston Electronics Corporation.						
J.H.	CH	"A Lock-in Amplifier Primer," by Princeton Applied Research (1975).						
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EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	5,950,141	9/7/99	Yamamoto et al.			
N	5,960,378	9/28/99	Watanabe et al.			
W	6,133,991	10/17/00	Ake			
W	6,263,595	7/24/01	Ake			

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						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	CI	"Explore the Lock-In Amplifier," by EG&G Princeton Applied Research, Scientific Instrument Group (1983).

EXAMINER

*Jim Ake*

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